

Who is this guy?

- Matt Todd
- Principal Architect @ Resonate Group
- Cloud Native Enthusiast
- https://github.com/mattjtodd
- https://hub.docker.com/u/mattjtodd/

Thanks....

To our hosts @ BlackCat Solutions

https://blackcatsolutions.co.uk/



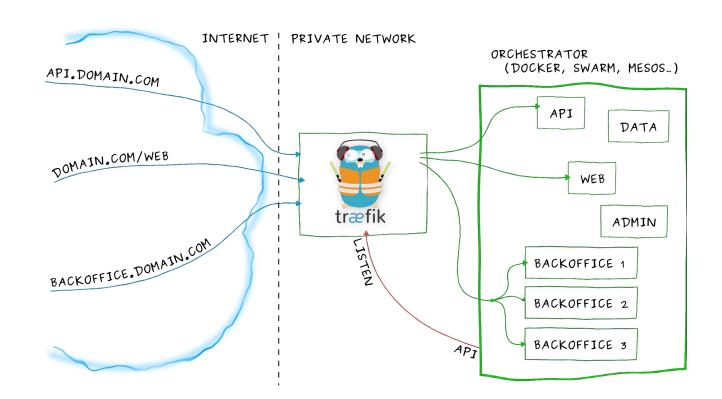
Effective Ingress Traffic Management with Traefik

A re-run.

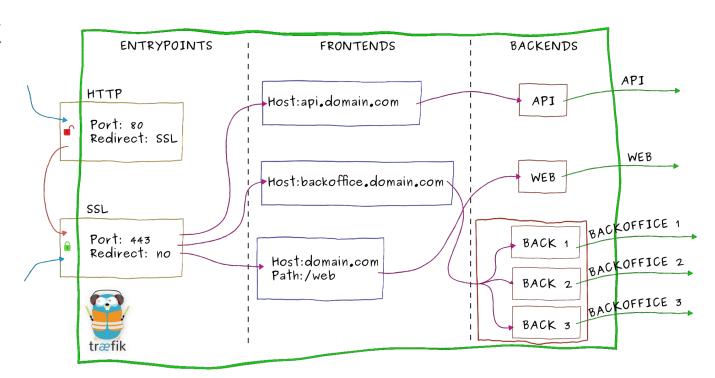
Traefik

- A modern HTTP (Layer 7) Reverse Proxy / Load Balancer
- Orchestrator Aware
- Support for multiple backends
- Written in GO!

Traefik



Traefik



Features

- It's fast
- No dependency hell, single binary made with go
- Tiny official docker image
- Rest API
- Hot-reloading of configuration. No need to restart the process

Features

- Circuit breakers, retry
- Round Robin, rebalancer load-balancers
- Metrics (Rest, Prometheus, Datadog, Statd)
- Access Logs (JSON, CLF)
- Let's Encrypt support (Automatic HTTPS with renewal)

Supported Backends

Docker / Swarm mode Eureka

Kubernetes Amazon ECS

Mesos / Marathon Amazon Dynamo DB

Rancher (API, Metadata) File

Consul / Etcd / Zookeeper / BoltDB Rest API

Frontends

- Host Header
- Regex Headers
- HTTP Method
- Path
- Query Params

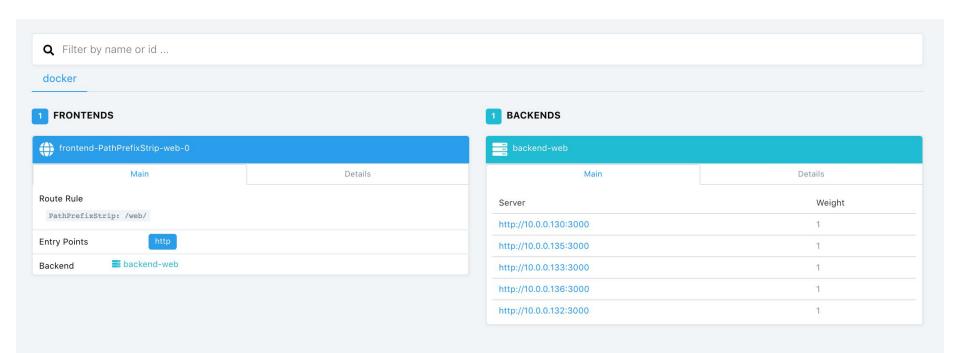
Now for some....

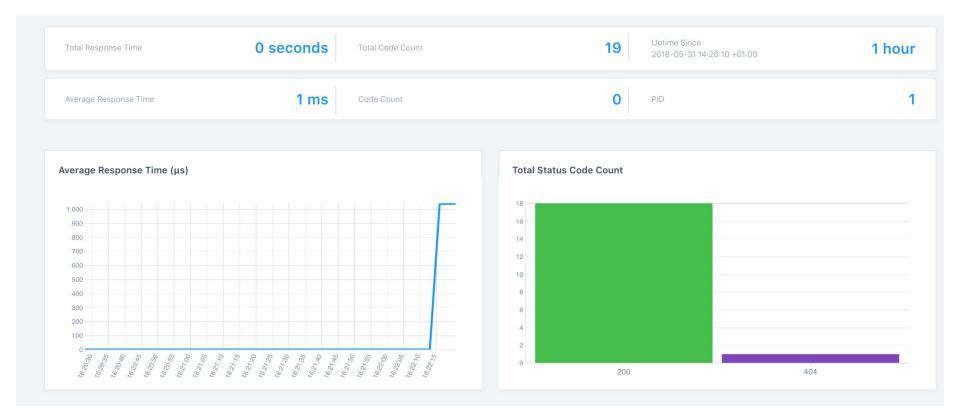


Canary Deployment

- Traefik
- FluentD
- Portainer
- Go Webapps
 - Web App1
 - Good Canary
 - Bad Canary

https://github.com/mattjtodd/docker-meetup-traefik





Sticky Sessions!



Sticky Session

Works natively in the browser, but needs some flags and files with curl:

```
curl -c cookie.txt localhost/web/work
Traefik, "web1", "traefik_web1-4-linuxkit-02500000001"%
$ cat cookie.txt
# Netscape HTTP Cookie File
# https://curl.haxx.se/docs/http-cookies.html
# This file was generated by libcurl! Edit at your own risk.
localhostFALSE /
                      FALSE 0 _40e28 http://10.0.0.136:3000
```

Sticky Session

```
$ curl -b cookie.txt localhost/web/work
Traefik, "web1", "traefik_web1-4-linuxkit-025000000001"%
$ curl -b cookie.txt localhost/web/work
Traefik, "web1", "traefik_web1-4-linuxkit-025000000001"%
$ curl localhost/web/work
Traefik, "web1", "traefik_web1-5-linuxkit-025000000001"%
```

Questions? Thoughts? More Shia Magic?

